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NOTICE OF ALLOWANCE AND FEE(S) DUE

500 7590 12/03/2008

SEED INTELLECTUAL PROPERTY LAW GROUP PLLC

SUITE 5400 SEATTLE, WA 98104 EXAMINER BLANCHARD, DAVID J

ART UNIT PAPER NUMBER

1643 DATE MAILED: 12/03/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/593,793
 06/13/2000
 Jiangchun Xu
 210121.427C15
 5630

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF PROSTATE CANCER

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$0
 \$1280
 \$1510
 03/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT AGRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth tions.	or trans ig the P ierwise	atent, advance or in Block 1, by (a	ders and notification () specifying a new o	of n	naintenance fees w pondence address;	ill be and/o	mailed to the current (b) indicating a sepa	corre irate '	spondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
500 7590 12/03/2008 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 5400					Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 272-2828, on the date indicated below the USPTO (571) 272-2828, on the date indicated below the Mail State of the Mail Stat					
SEATTLE, WA	98104									(Depositor's name)
					L					(Signature)
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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVE		NTOR /		ATTORNEY DOCKET NO.		CO	NFIRMATION NO.
09/593,793 TITLE OF INVENTION	06/13/2000 COMPOSITIONS AN	D METH	HODS FOR THE	Jiangchun Xu THERAPY AND DL	AGN	OSIS OF PROSTA		:10121.427C15 INCER		5630
APPLN, TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	SUE FEE TOTAL FEE(S) DUI		Т	DATE DUE
nonprovisional	NO		\$1510	\$0		\$1280	80 \$1510			03/03/2009
EXAM	INER	- /	ART UNIT	CLASS-SUBCLASS	3					
BLANCHAR	D, DAVID J		1643	530-350000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	nge of C " Indicat ed. Use	Correspondence tion form of a Customer E PRINTED ON T	(1) the names of or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name with EPATENT (print of the patent).	ap to rnativ single or attor II be or typ he pa g an a	e firm (having as a gent) and the nam meys or agents. If i printed. e) atent. If an assigna assignment.	membes of u	er a 2 p to be is 3 lentified below, the d		ent has been filed for
Please check the appropri	iate assignee category or	categor	ies (will not be pr	inted on the patent):	۵	Individual 🗖 Co	rporati	on or other private gro	sup en	tity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				B. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit eard, Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY state	ıs. See 3	7 CFR 1.27.					ITTY status. See 37 Cl		
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	tes Pate	nt and Trademark	Office.	uan u	ie applicant, a regi	siereu .	ittorney or agent, or ti	e assi	guee or outer party in
Authorized Signature						Date				
Typed or printed name				Registration No.						
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DATE MAILED: 12/03/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/593,793	793 06/13/2000 Jiangchun Xu		210121.427C15	5630		
500 75	90 12/03/2008		EXAMINER			
SEED INTELLE	CTUAL PROPERTY	BLANCHARD, DAVID J				
701 FIFTH AVE			ART UNIT	PAPER NUMBER		
SUITE 5400 SEATTLE, WA 98	2104		1643			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)					
09/593,793	XU ET AL.					
Examiner	Art Unit					
David I Blanchard	1642					

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to 14 October 2008.
- 2. The allowed claim(s) is/are 61, 63 and 19 (renumbered as claims 1-3, respectively).
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. \(\sum \) Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 10/14/08
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date ______.
- 7. X Examiner's Amendment/Comment
- 8.

 Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/David J Blanchard/ Primary Examiner, Art Unit 1643

Page 2

Application/Control Number: 09/593,793

Art Unit: 1643

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 14 October 2008 has been entered.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 14 October 2008 has been fully considered by the examiner. A signed and initialed copy of the IDS is included with the instant Office Action.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffrey Hundley on 24 November 2008.

The claims have been amended as follows:

19. (Currently amended) An $\underline{\text{The}}$ immunogenic composition according to claim 61, wherein the immunostimulant is an adjuvant.

Application/Control Number: 09/593,793

Art Unit: 1643

61. (Currently Amended) An immunogenic composition comprising an immunostimulant which induces a predominantly Th1-type immune response and a polypeptide, wherein the polypeptide comprises SEQ ID NO:113 or a fragment of SEQ ID NO: 113 consisting of at least amino acid residues 367-375 of SEQ ID NO: 113, and wherein the polypeptide stimulates a human cytotoxic T lymphocyte response specific for SEQ ID NO:113.

63. (Currently amended) An <u>The</u> immunogenic composition according to claim 61, wherein the immunostimulant is selected from the group consisting of: monophosphoryl lipid A; 3-de-O-acylated monophosphoryl lipid A; and saponins consisting of monophosphoryl lipid A, 3-de-O-acylated monophosphoryl lipid A and saponins.

The specification is amended as follows:

Please replace the paragraph (or section) beginning at page 1, line 3, with the following paragraph (or section):

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of U.S. Patent Application No. 09/570,737, filed May 12, 2000, now Patent No. 7,202,342, which is a continuation-in-part of U.S. Patent Application No. 09/568,100, filed May 9, 2000, now abandoned, which is a continuation-in-part of U.S. Patent Application No. 09/536,857, filed March 27, 2000, now abandoned, which is a continuation-in-part of U.S. Patent Application No. 09/483,672, filed January 14, 2000, now abandoned, which is a continuation-in-part of U.S. Patent Application No. 09/439,313, filed November 12, 1999, now Patent No. 6,329,505, which is a continuation-in-part of U.S. Patent Application No. 09/352,616, filed July 13, 1999, now Patent No. 6,395,278, which is a continuation-in-part of U.S. Patent Application No. 09/288,946, filed April 9, 1999, now abandoned, which is a continuation-in-part of U.S. Patent Application No. 09/232,149, filed January 15, 1999, now Patent No. 6,465,611, which is a continuation in part of U.S. Patent Application No.

Application/Control Number: 09/593,793

Art Unit: 1643

09/159,812, filed September 23, 1998, now Patent No. 6,613,872, which is a continuation in part of U.S. Patent Application No. 09/115,453, filed July 14, 1998, now Patent No. 6,657,056, which is a continuation in part of U.S. Patent Application No. 09/030,607, filed February 25,1998, now Patent No. 6,262,245, which is a continuation in part of U.S. Patent Application No. 09/020,956, filed February 9, 1998, now Patent No. 6,261,562, which is a continuation in part of U.S. Patent Application No. 08/904,804, filed August 1, 1997, now abandoned, which is a continuation in part of U.S. Patent Application No. 08/806,099, filed February 25, 1997, now abandoned.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Blanchard whose telephone number is (571) 272-0827. The examiner can normally be reached at Monday through Friday from 8:00 AM to 6:00 PM, with alternate Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, can be reached at (571) 272-0832.

The official fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/David J. Blanchard/ Primary Examiner, A.U. 1643